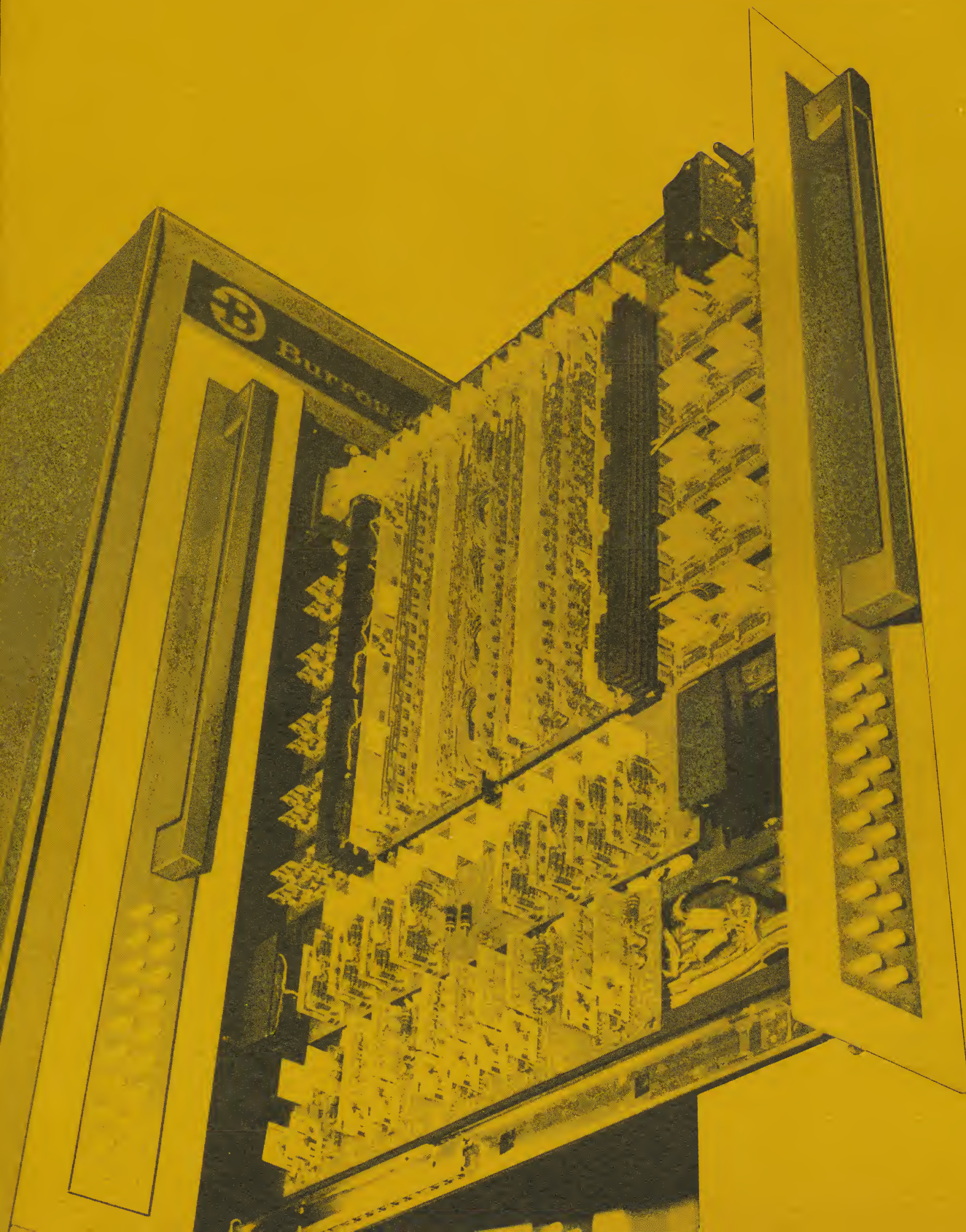


CORE MEMORY SYSTEMS



- 0.6 μ sec. to 1.0 μ sec. Cycle Times
- $2\frac{1}{2}$ D Organization
- 20 mil cores
- Hybrid Microcircuits
- Monolithic Integrated Circuits
- Low Cost Per Bit
- Building-block Construction
- Standard Packaging

The Burroughs BFC600 line of Core Memory Systems are random access, high speed systems for commercial, industrial and military data handling equipment. By using 20 mil cores (.020" OD/.012" ID) and a $2\frac{1}{2}$ D wiring organization, full cycle times of 0.6 μ sec is economically achieved. Reliability is enhanced by the use of Burroughs hybrid microcircuits in the line drivers and sense amplifiers. Monolithic integrated circuits are used for all logic and in the address and information registers.

The basic modular building block in the memory is 8192 words by 20 bits. Up to 4 of these modules which includes the core memory, sense amplifiers, driver circuits, and information registers can be accommodated vertically in a standard 19" rack by $26\frac{3}{4}$ " panel height including mounting slides.

An associated memory control module which includes the timing circuits, address register and decode logic is also available. One control module is capable of servicing up to four memory modules and can be packaged in one of two mechanical configurations; one mounts horizontally in the standard 19" rack. The other has identical dimensions of the basic memory module and may be mounted vertically, adjacent to the memory module(s). The latter may be employed when less than 4 memory modules are used.

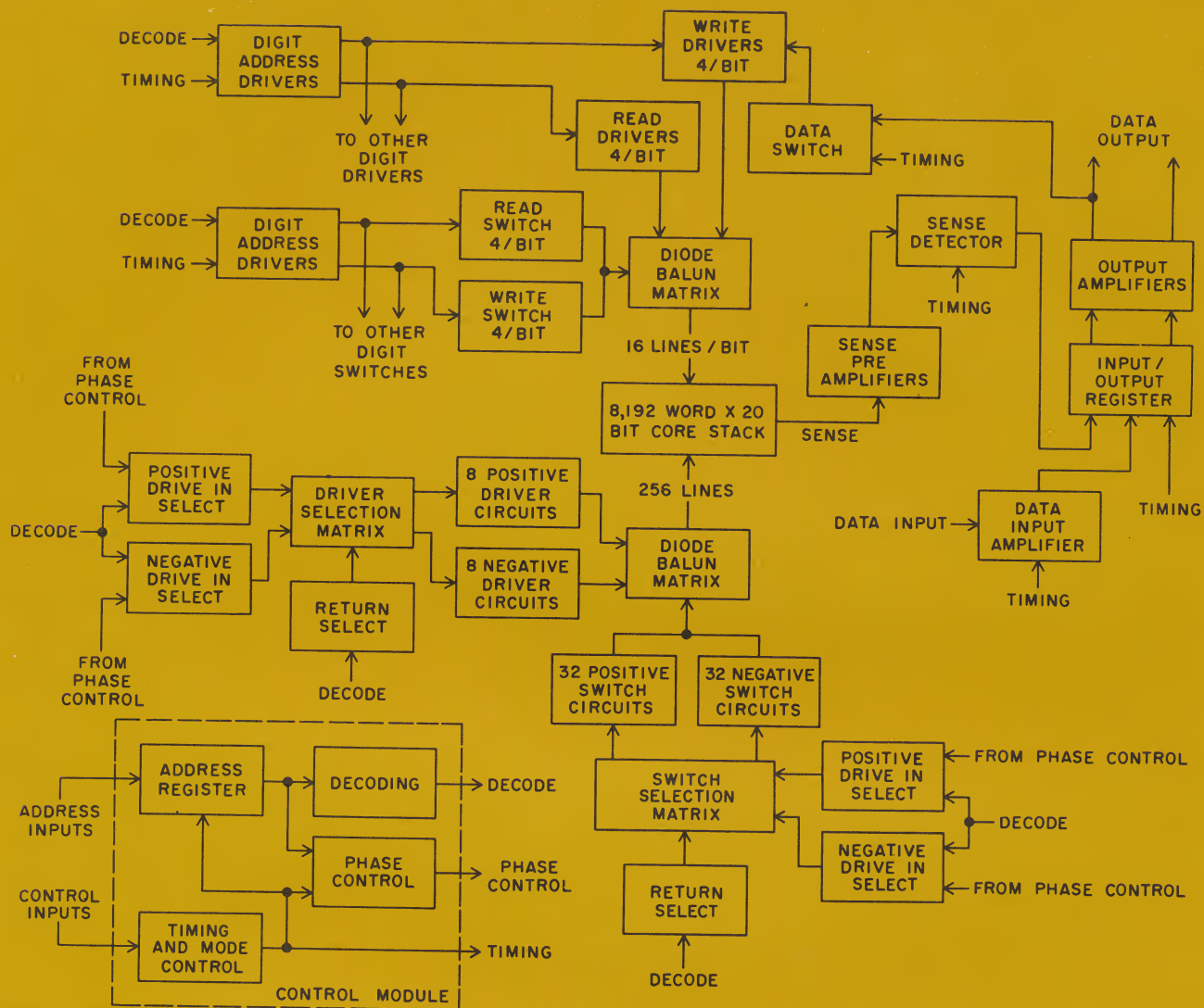
Power supplied capable of driving 4 memory modules and one control module are also available for 19" rack mounting.



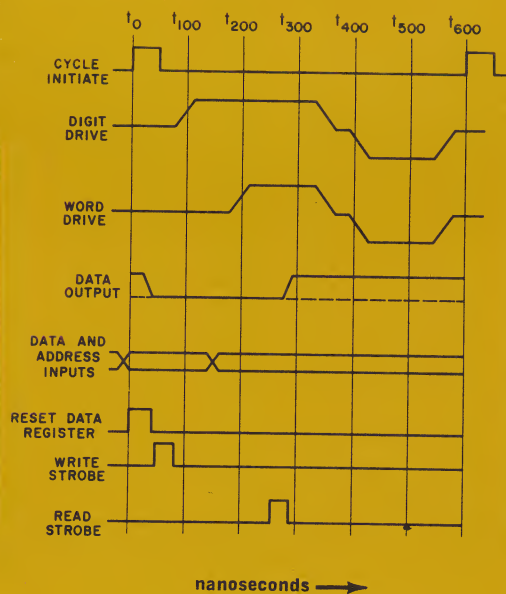
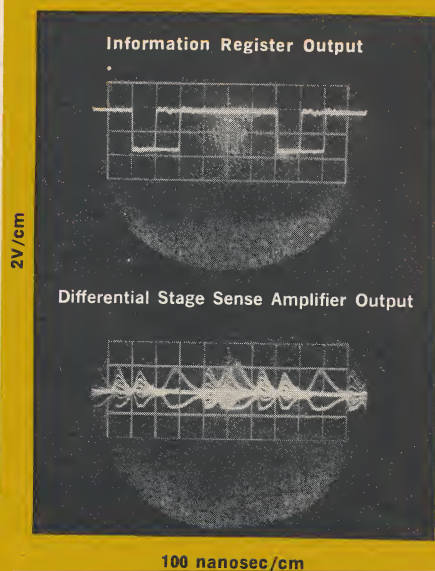
Console showing one memory module

SPECIFICATIONS

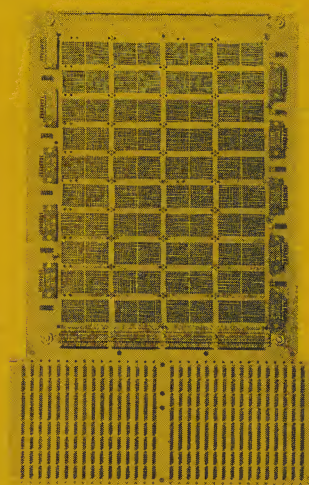
Memory Capacity	The modular construction lends the memory to a wide range of applications. Each building block can accommodate up to 8192 words of 20 bits per word. The module can easily be combined to build up both word capacity and bit length in any combination.
Mode of Access	Random, full cycle
Full Cycle Time	600 nanosecond to 1 microsecond
Access Time	Less than half the cycle time
Input Interface	All inputs accept twisted pair or coax cable with provisions for termination within the memory module
Standard Input Levels	Logic "1" = $+2.2 \pm 0.5V$ Logic "0" = $-0.5 \pm 0.5V$
Power Dissipation	Less than 300 Watts per 20 bit module (worst case-all "1" condition).
Environmental Specifications	Temperature Range $+15^{\circ}C$ to $+40^{\circ}C$ Relative Humidity to 90% without condensation
Package Size (8192 word x 20 bit)	The memory module is $26\frac{3}{4}$ " high (including mounting slides), by $20\frac{1}{2}$ " in depth (including mating connectors) by $4\frac{1}{4}$ " wide. The modules are front access, slide mounted units. Four of these modules will mount in a standard 19" rack
Output Interface	Output data lines are driven by monolithic integrated buffer circuits that are capable of driving twisted pair of coax cable terminated in their characteristic impedance (not to be lower than 50 ohms).
Standard Output Levels	Logical "1" = $+2.3 \pm 0.4V$ Logical "0" = $-0.5 \pm 0.5V$



System block diagram



System Timing Diagram



2 1/2 D Core memory Stack



Console containing memory modules,
control module and power supplies.

ADDITIONAL FEATURES

- Pluggable core stack
- Selection diodes are mounted on pluggable boards
- Low power consumption
- All silicon semiconductors
- Monolithic integrated logic circuits
- Delay line timing
- Data and address indicators
- Easy access to all cores & memory lines

STANDARD OPTIONS AVAILABLE

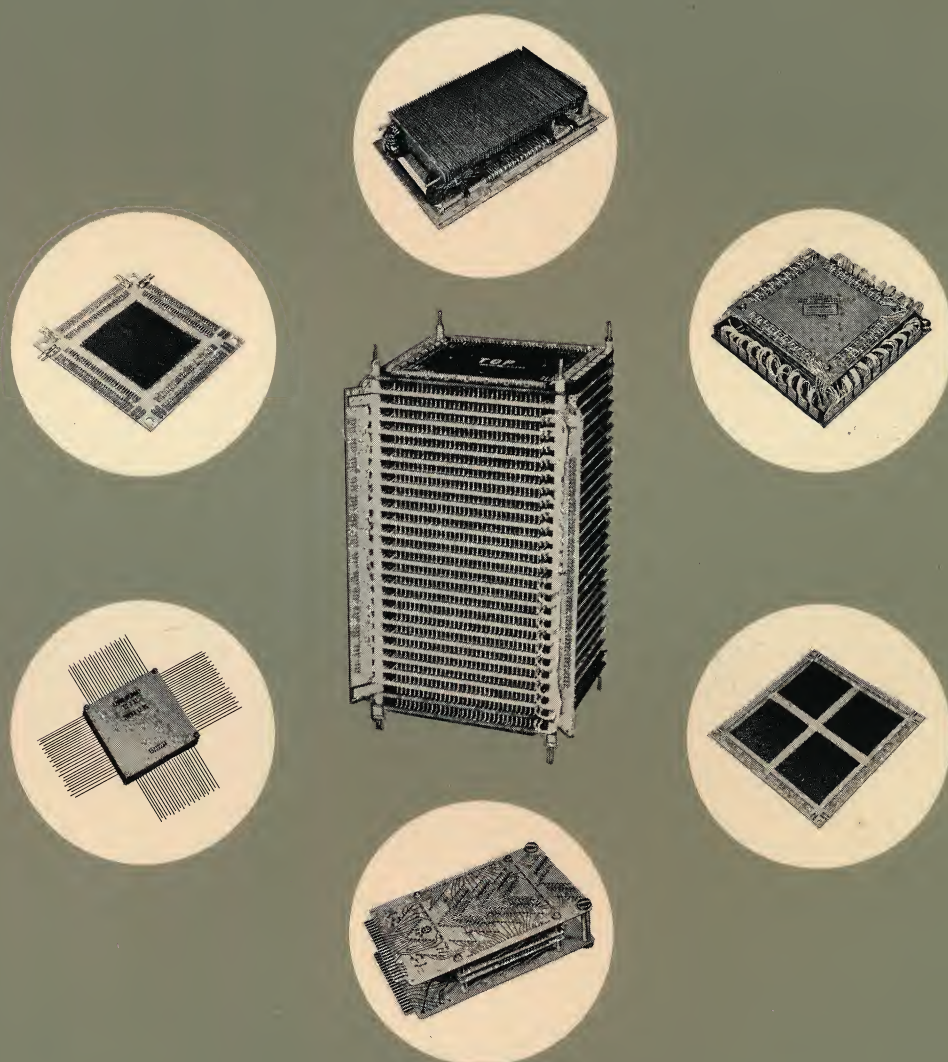
- Split cycle operation
- Data retention
- Special timing pulses
- Margin control
- Over-under voltage sensing
- Built in self-test
- Double rail data output
- Special interface levels
- Parity check and generation
- Sequential access mode
- 250 nanosecond access time



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PLAINFIELD, NEW JERSEY 07061

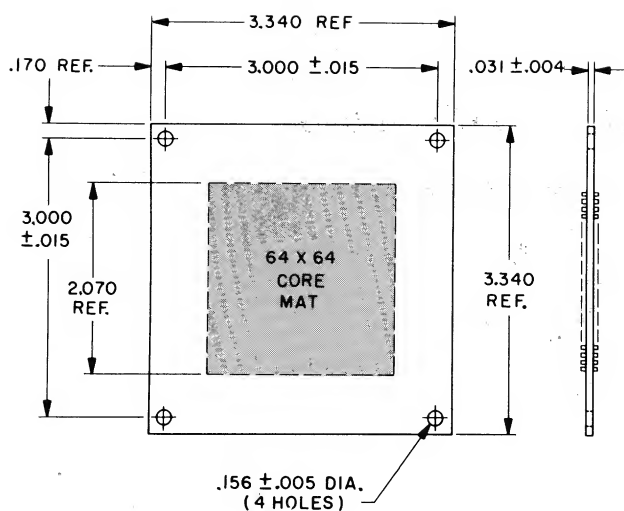
Ferrite Memory Products



Burroughs Corporation

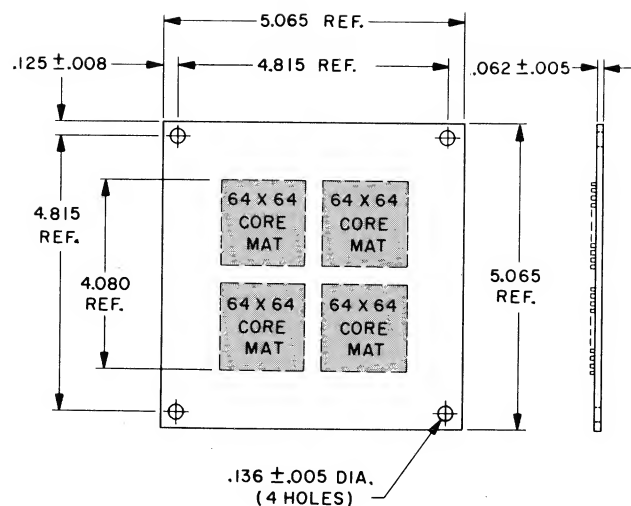
ELECTRONIC COMPONENTS DIVISION

PLAINFIELD, NEW JERSEY 07061



NEMA GRADE FR-4 GLASS BASE EPOXY.
PRINTED-CIRCUIT DOUBLE-MATTED CONFIGURATION.

CAPACITY — 4096 Words/Side. 20 or 30 mil cores on 30 mil centers for coincident-current applications.



NEMA GRADE FR-4 GLASS BASE EPOXY.
PRINTED-CIRCUIT QUAD-FRAME CONFIGURATION.

CAPACITY — 16,384 words. 20 or 30 mil cores on 30 mil centers for coincident-current applications.

Ferrite Memory Products

Today's data processing systems require a low-cost, high-speed, extremely reliable means of storage. Ferrite magnetic core memory is an effective and popular means of achieving this. At Burroughs we are continually updating and improving our ferrite memory cores, planes and stacks to provide the user with the most advanced product available.

Our cores include conventional and wide-temperature types for use in coincident-current, linear-select and 2½ D memory applications. Sizes are 20 mil, 30 mil, 50 mil and 80 mil (see table on opposite page).

The standard Burroughs memory planes, shown above, use 20 or 30 mil conventional or wide-temperature cores on 30 mil centers. There are presently two types available: one has a 64 x 64 core array and is a double-matted type (4K per side); the other is a four quadrant single-sided type with a 64 x 64 core array per quadrant. Burroughs' stacks can be made to order using these standard planes.

Special cores, planes and stacks can also be made available for those applications requiring them.

Phone or write your nearest Burroughs Sales Office (back page) for any information you need.

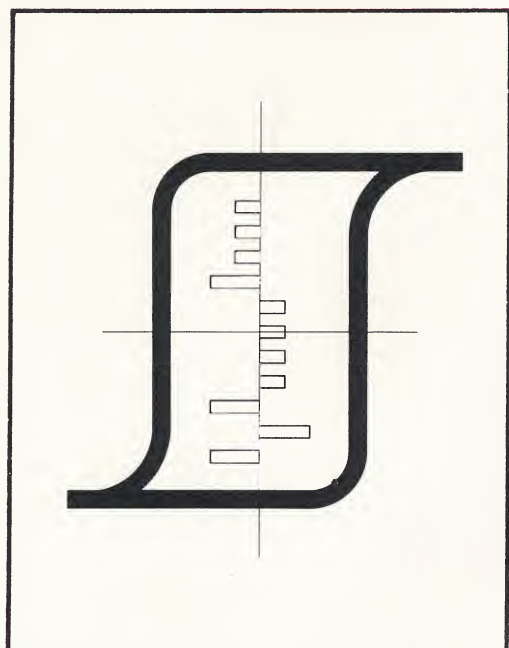
CHARACTERISTICS OF TYPICAL FERRITE CORES

CORE TYPE	OD/ID (MILS)	DRIVE CONDITIONS @ 25°C				OUTPUT SIGNALS @ 25°C				SYSTEM CYCLE TIME (μ sec)
		$I_r = I_w$ (ma)	I_{pw} (ma)	t_r (μ sec)	t_d (μ sec)	uV_l (mv)	dV_z (mv)	t_p (μ sec)	t_s (μ sec)	
FC-2001	22/14	700	350	0.05	1.5	40	5	0.15	0.30	1 - 1.5
FC-3003	30/20	700	350	0.10	1.5	50	4	0.22	0.40	1.5 - 2
FC-3004	30/20	580	290	0.10	1.5	60	6	0.22	0.38	1.5 - 2
FC-3006*	30/20	800	400	0.10	1.5	55	6	0.24	0.46	1.5 - 2
FC-5002	50/30	520	260	0.15	2.0	120	13	0.34	0.68	3 - 5
FC-5003	50/30	550	275	0.20	3.0	80	7	0.41	0.80	4 - 6
FC-5004	50/30	420	210	0.50	3.0	90	5	0.68	1.18	4 - 6
FC-8001	80/50	800	400	0.20	4.0	130	20	0.55	1.0	4 - 6

* WIDE-TEMPERATURE TYPE



MEMORY PRODUCTS



MEMORY CORE

Type FC-5004

The FC-5004 is a 50 mil ferrite memory core which exhibits fast switching speed at low drive currents. It is recommended for use in memories having cycle times of 4 to 6 microseconds. At a nominal drive current of 420 milliamperes, FC-5004 has a switching time of approximately 1.2 microseconds.

MECHANICAL SPECIFICATIONS

Outside Diameter 0.050" \pm 0.002"
Inside Diameter 0.030" \pm 0.002"
Thickness 0.015" \pm 0.002"

Fracture strength: The core will not fracture when subjected to a compressive force of 200 grams applied between parallel plane surfaces normal to the core diameter.

TYPICAL OPERATING CONDITIONS (at 25°C)

Drive Currents

$I_r = I_w = 420$ milliamperes
 $I_{pw} = 210$ milliamperes
 $t_r = 0.5$ microseconds
 $t_d = 3.0$ microseconds

Output Signals

$uV_1 = 90$ millivolts
 $dV_z = 5$ millivolts
 $t_p = 0.68$ microseconds
 $t_s = 1.18$ microseconds

TEST SPECIFICATION (at 25°C)

Drive Current Pulse Sequence

All cores are tested using the pulse sequence shown in Figure 1. Cores are delivered 100% tested to a 0.015 AQL as defined by Mil STD-105D, Inspection Level II.

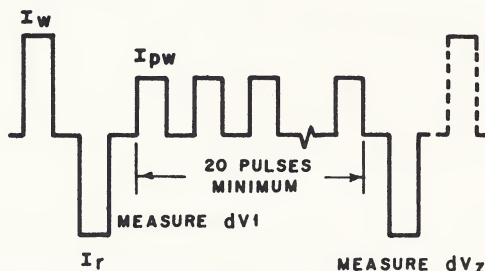


Figure 1.

Test Drive Conditions

$I_r = I_w = 380$ milliamperes \pm 1%
 $I_{pw} = 220$ milliamperes \pm 1%
 $t_r = 0.5$ microseconds
 $t_d = 3.0$ microseconds

Test Output Signals

$uV_1 = 60$ millivolts minimum. The maximum variation in uV_1 within a given lot will be no greater than \pm 12%
 $dV_z = 7$ millivolts maximum
 $t_p = 0.77 \pm .05$ microseconds
 $t_s = 1.40$ microseconds maximum

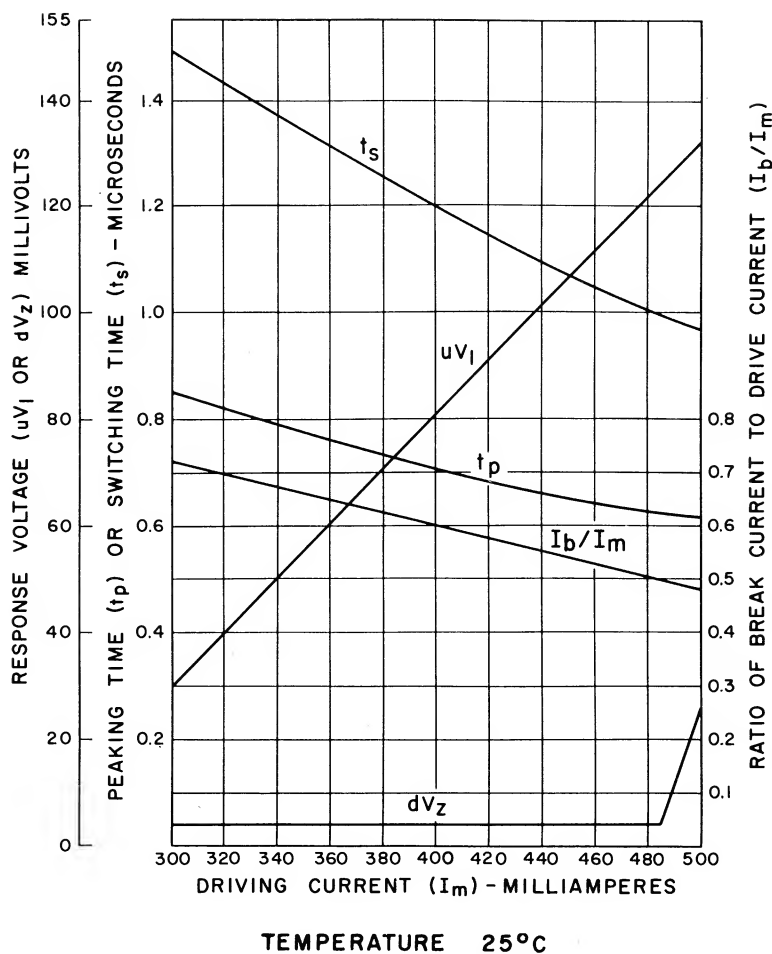


Figure 2. TYPICAL OPERATING CHARACTERISTICS

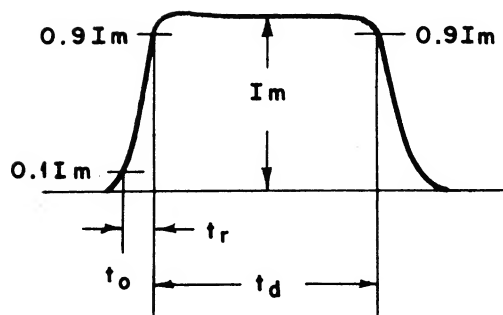


Figure 3. CURRENT PULSE

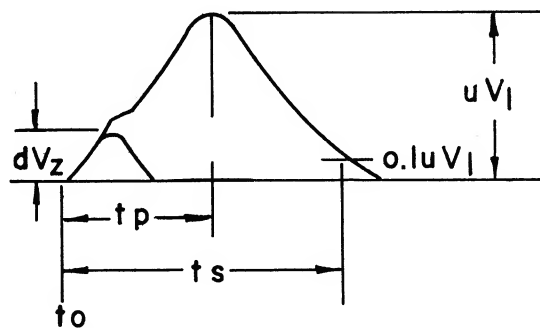


Figure 4. VOLTAGE RESPONSE

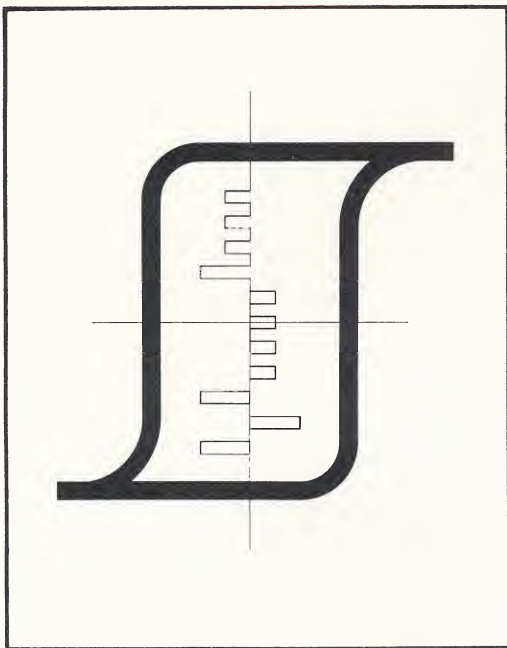


Burroughs Corporation

ELECTRONIC COMPONENTS DIVISION
PLAINFIELD, NEW JERSEY



MEMORY PRODUCTS



FERRITE MEMORY CORE Type FC-8001

FC-8001 is an 80 mil ferrite memory core which exhibits a relatively fast switching speed at moderate drive currents. It is recommended for use in memories having cycle times of 4 to 6 microseconds. At a nominal drive current of 800 milliamperes, FC-8001 has a switching time of approximately 1.0 microseconds.

MECHANICAL SPECIFICATIONS

Outside Diameter $0.080'' \pm 0.002''$
Inside Diameter $0.050'' \pm 0.002''$
Thickness $0.025'' \pm 0.002''$

Fracture strength: The core will not fracture when subjected to a compressive force of 400 grams applied between parallel plane surfaces normal to the core diameter.

TYPICAL OPERATING CONDITIONS (at 25°C):

Drive Currents

$I_r = I_w = 800$ milliamperes
 $I_{pw} = 400$ milliamperes
 $t_r = 0.2$ microseconds
 $t_d = 4.0$ microseconds

Output Signals

$uV_1 = 130$ millivolts
 $dV_z = 20$ millivolts
 $t_p = 0.55$ microseconds
 $t_s = 1.0$ microseconds

TEST SPECIFICATIONS (at 25°C):

Drive Current Pulse Sequence

All cores are tested using the pulse sequence shown in Figure 1. Cores are delivered 100% tested to a 0.015 AQL as defined by MIL STD-105D, Inspection Level II.

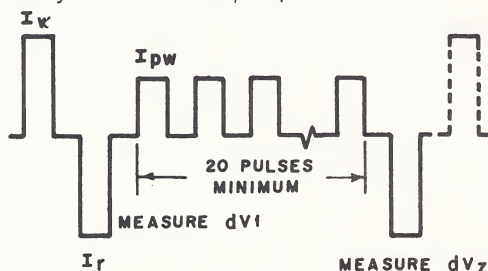


Figure 1.

Test Drive Conditions

$I_r = I_w = 740$ milliamperes $\pm 1\%$
 $I_{pw} = 470$ milliamperes $\pm 1\%$
 $t_r = 0.2$ microseconds
 $t_d = 3.0$ microseconds

Test Output Signals

$uV_1 = 90$ millivolts minimum. The maximum variation in uV_1 within a given lot will be no greater than $\pm 12\%$.
 $dV_z = 20$ millivolts maximum
 $t_p = 0.63 \pm .05$ microseconds
 $t_s = 1.25$ microseconds maximum

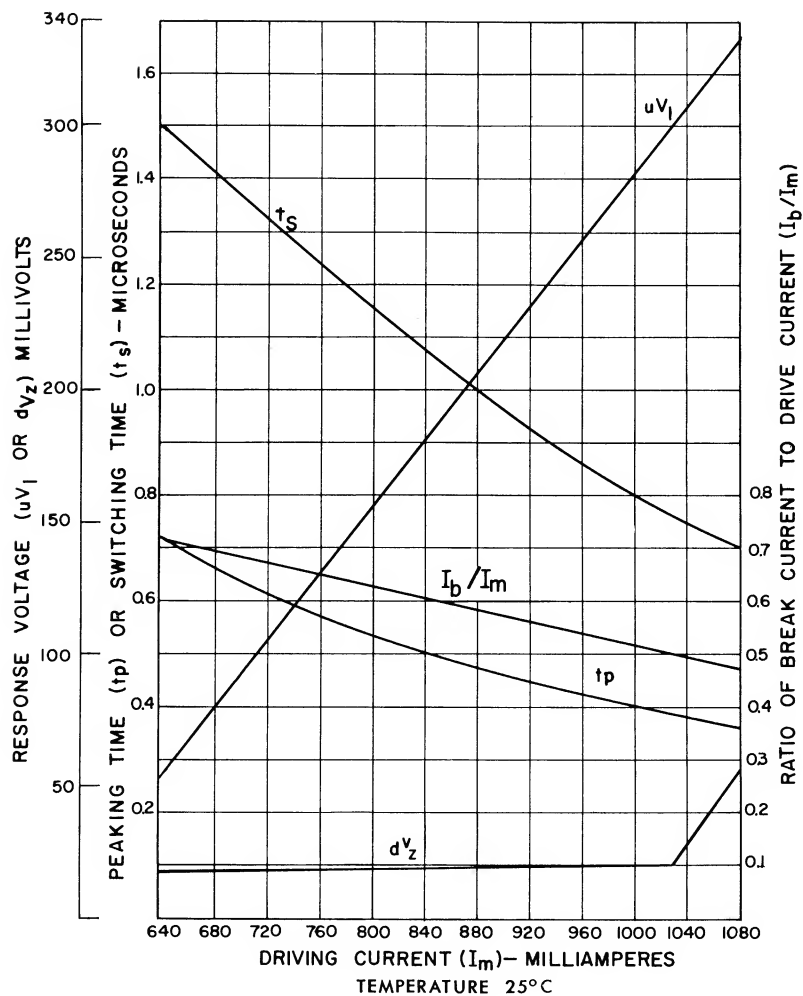


Figure 2. TYPICAL OPERATING CHARACTERISTICS

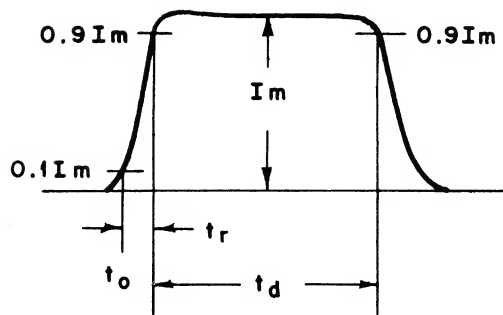


Figure 3. CURRENT PULSE

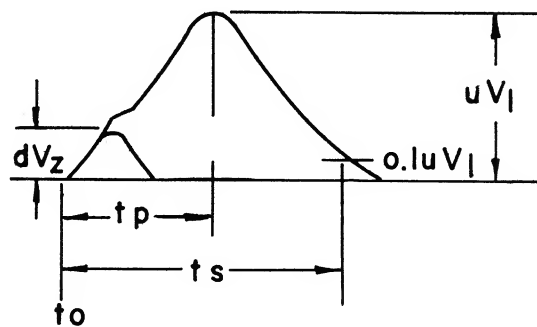
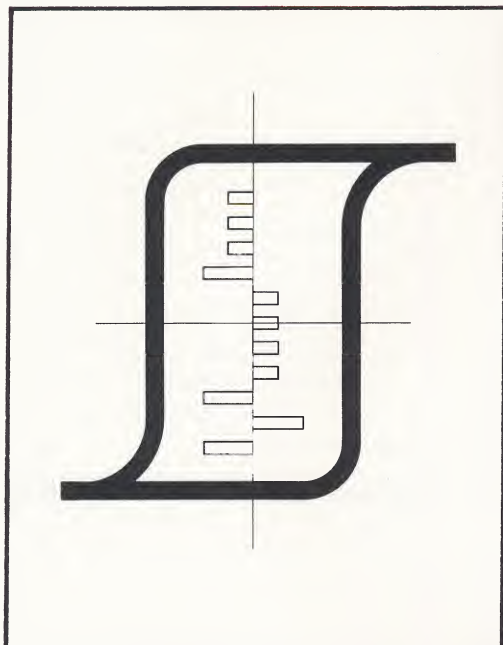


Figure 4. VOLTAGE RESPONSE

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PLAINFIELD, NEW JERSEY



MEMORY PRODUCTS



FERRITE MEMORY CORE Type FC-3004

The FC-3004 is a 30 mil ferrite core which exhibits very fast switching speed at moderate drive currents. It is recommended for use in memories having cycle times of 2 microseconds. At a nominal drive current of 580 milliamperes, FC-3004 has a switching time of approximately 0.40 microseconds.

MECHANICAL SPECIFICATIONS

Outside Diameter $.030'' \pm 0.002''$
Inside Diameter $.020'' \pm 0.002''$
Thickness $.008'' \pm 0.001''$

Fracture strength: The core will not fracture when subjected to a compressive force of 100 grams applied between parallel plane surfaces normal to the core diameter.

TYPICAL OPERATING CONDITIONS (at 25°C)

Drive Currents

$I_r = I_w = 580$ milliamperes
 $I_{pw} = 290$ milliamperes
 $t_r = 0.10$ microseconds
 $t_d = 1.5$ microseconds

Output Signals

$uV_1 = 60$ millivolts
 $dV_z = 6$ millivolts
 $t_p = 0.22$ microseconds
 $t_s = 0.38$ microseconds

TEST SPECIFICATIONS (at 25°C)

Drive Current Pulse Sequence

All cores are tested using the pulse sequence shown in Figure 1. Cores are delivered 100% tested to a 0.015 AQL as defined by MIL STD-105D, Inspection Level II.

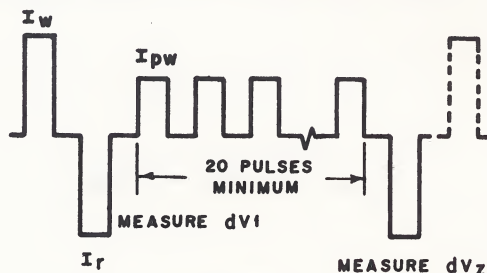


Figure 1.

Test Drive Conditions

$I_r = I_w = 520$ milliamperes $\pm 1\%$
 $I_{pw} = 320$ milliamperes $\pm 1\%$
 $t_r = 0.10$ microseconds
 $t_d = 1.5$ microseconds

Test Output Signals

$uV_1 = 38$ millivolts minimum. The maximum variation in uV_1 within a given lot will be no greater than $\pm 12\%$.
 $dV_z = 10$ millivolts maximum
 $t_p = 0.25 \pm .02$ microseconds
 $t_s = 0.46$ microseconds maximum

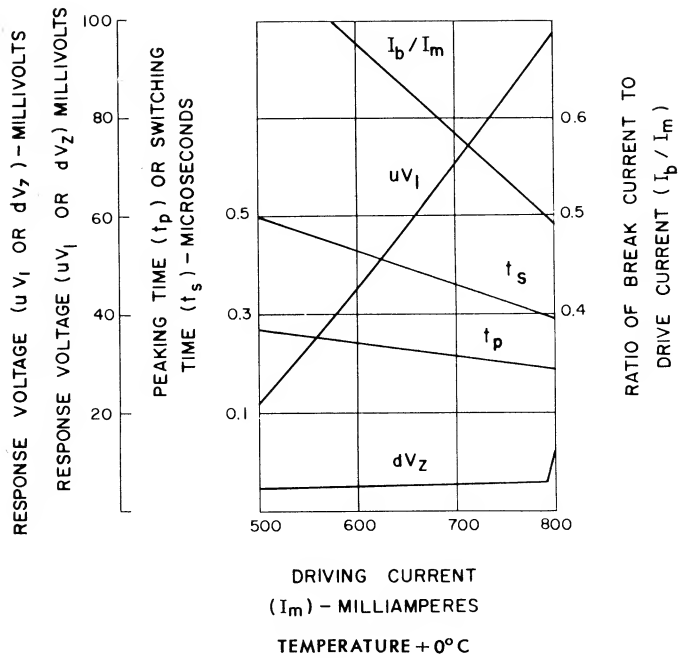


Figure 2a. TYPICAL OPERATING CHARACTERISTICS

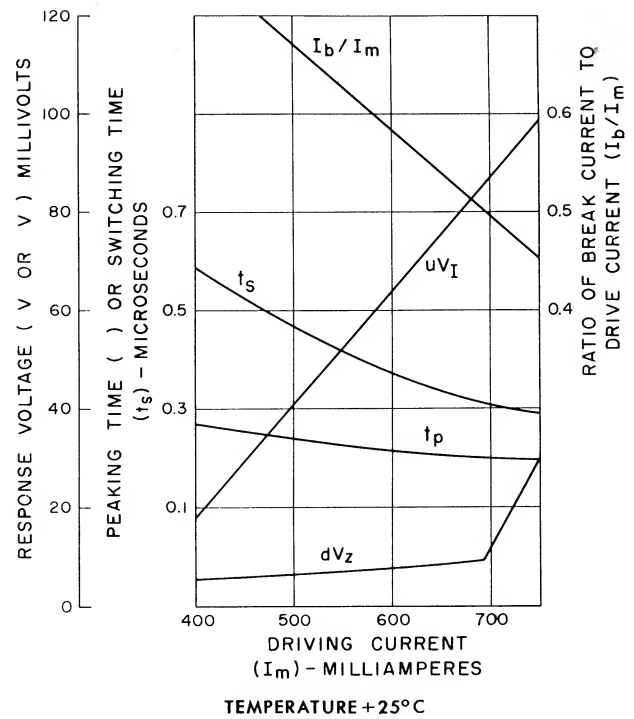


Figure 2b. TYPICAL OPERATING CHARACTERISTICS

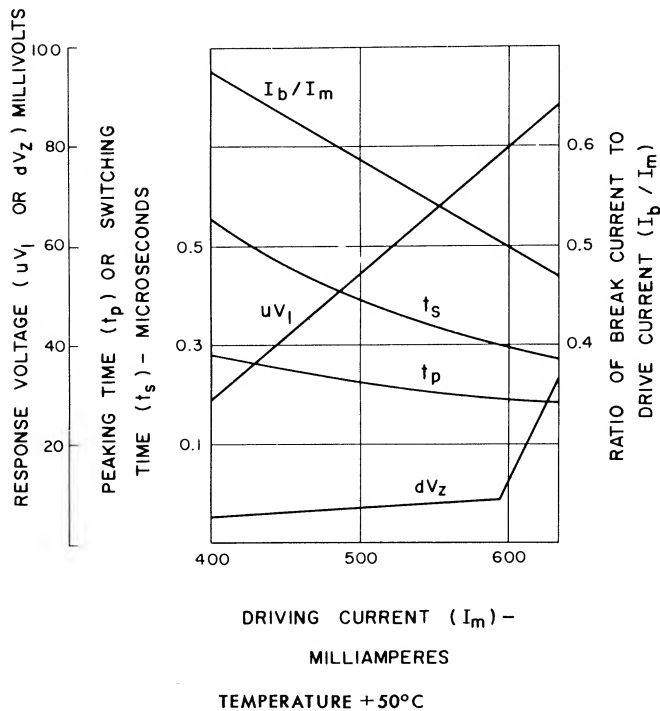


Figure 2c. TYPICAL OPERATING CHARACTERISTICS

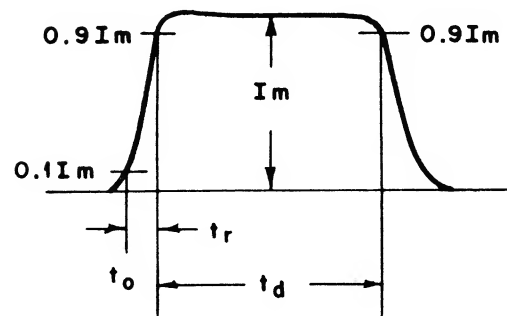


Figure 3. CURRENT PULSE

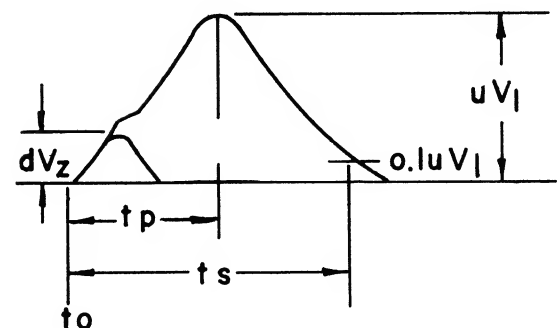
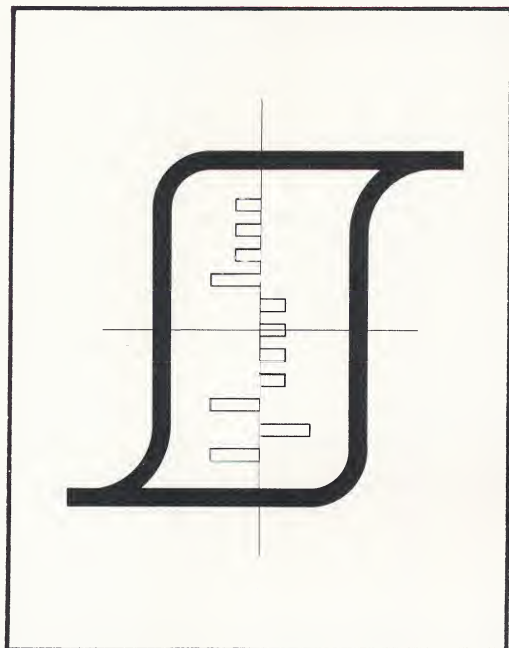


Figure 4. VOLTAGE RESPONSE

B Burroughs Corporation / ELECTRONIC COMPONENTS DIVISION
PLAINFIELD, NEW JERSEY



MEMORY PRODUCTS



MEMORY CORE Type FC-5002

The FC-5002 is a 50 mil ferrite memory core which exhibits fast switching speed at moderate drive currents. It is recommended for use in memories having cycle times of 4 to 6 microseconds. At a nominal drive current of 520 milliamperes, FC5002 has a switching time of approximately 0.70 microseconds.

MECHANICAL SPECIFICATIONS

Outside Diameter	0.050" \pm 0.002"
Inside Diameter	0.030" \pm 0.002"
Thickness	0.015" \pm 0.002"

Fracture strength: The core will not fracture when subjected to a compressive force of 200 grams applied between parallel plane surfaces normal to the core diameter.

TYPICAL OPERATING CONDITIONS (at 25° C)

Drive Currents

$I_r = I_w$	= 520 milliamperes
I_{pw}	= 260 milliamperes
t_r	= 0.15 microseconds
t_d	= 2.0 microseconds

Output Signals

uV_1	= 120 millivolts
dV_z	= 13 millivolts
t_p	= 0.34 microseconds
t_s	= 0.68 microseconds

TEST SPECIFICATION (at 25° C)

Drive Current Pulse Sequence

All cores are tested using the pulse sequence shown in Figure 1. Cores are delivered 100% tested to a 0.015 AQL as defined by Mil STD-105D, Inspection Level II.

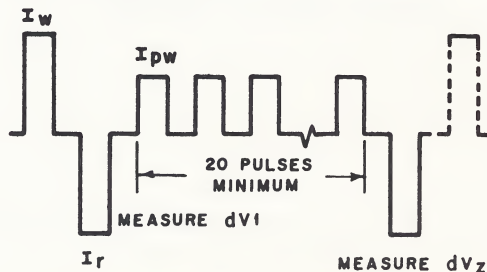


Figure 1.

Test Drive Conditions

$I_r = I_w$	= 475 milliamperes \pm 1%
I_{pw}	= 285 milliamperes \pm 1%
t_r	= 0.15 microseconds
t_d	= 2.0 microseconds

Test Output Signals

uV_1	= 85 millivolts minimum. The maximum variation in uV_1 within a given lot will be no greater than \pm 12%
dV_z	= 25 millivolts maximum
t_p	= $0.35 \pm .04$ microseconds
t_s	= 0.80 microseconds maximum

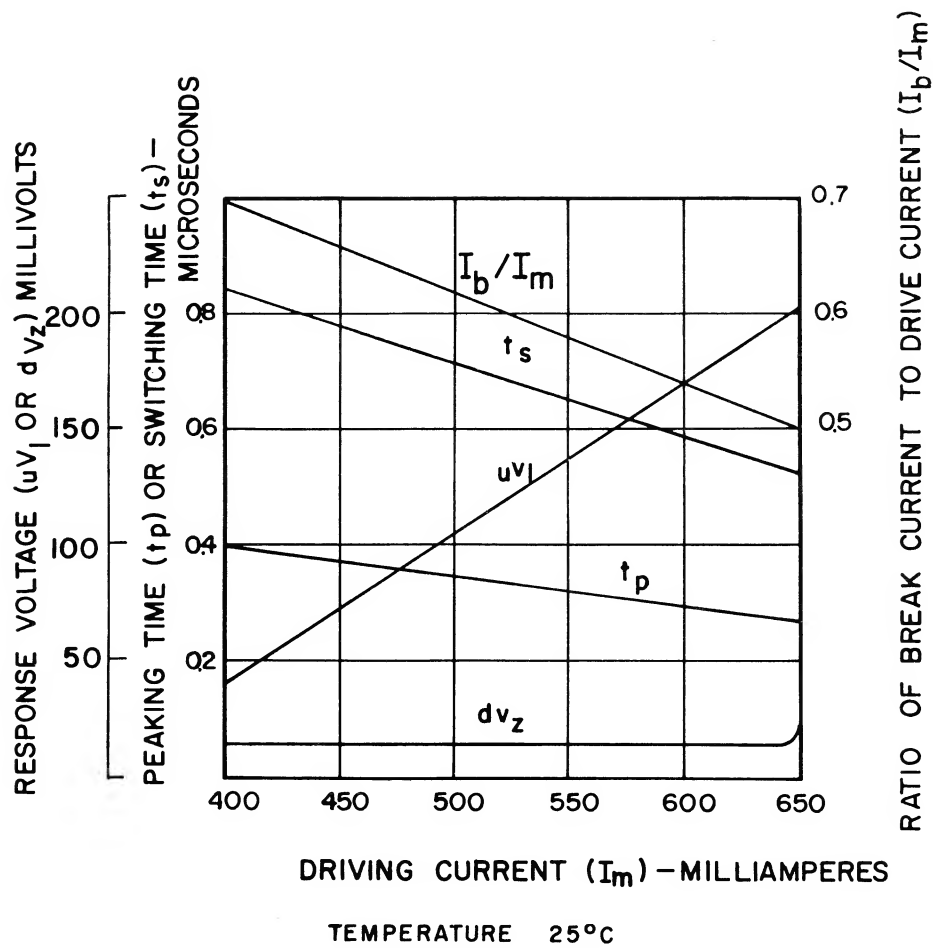


Figure 2. TYPICAL OPERATING CHARACTERISTICS

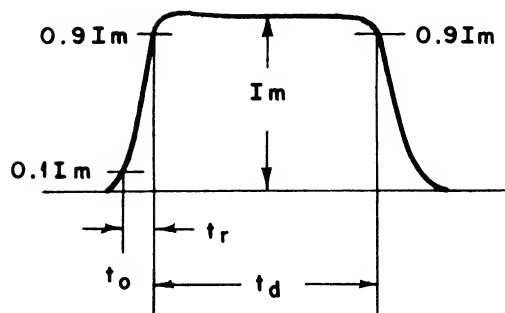


Figure 3. CURRENT PULSE

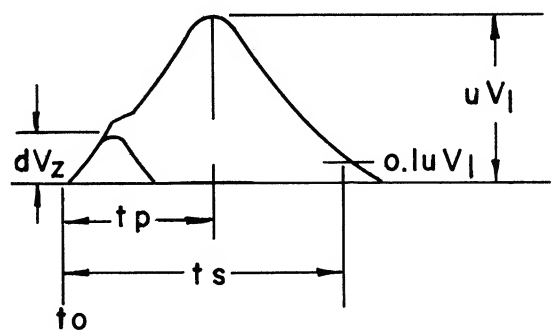
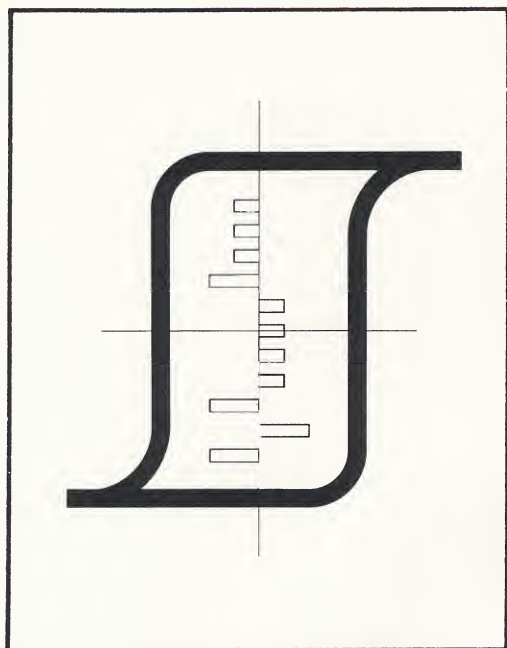


Figure 4. VOLTAGE RESPONSE

B Burroughs Corporation / ELECTRONIC COMPONENTS DIVISION
PLAINFIELD, NEW JERSEY



MEMORY PRODUCTS



MEMORY CORE

Type FC-5003

The FC-5003 is a 50 mil ferrite memory core which exhibits fast switching speed and very low noise at moderate drive currents. It is recommended for use in memories having cycle times of 6 to 8 microseconds. At a nominal drive current of 550 milliamperes, FC-5003 has a switching time of approximately 0.80 microseconds.

MECHANICAL SPECIFICATIONS

Outside Diameter	0.050" \pm 0.002"
Inside Diameter	0.030" \pm 0.002"
Thickness	0.012" \pm 0.001"

Fracture strength: The core will not fracture when subjected to a compressive force of 200 grams applied between parallel plane surfaces normal to the core diameter.

TYPICAL OPERATING CONDITIONS (at 25°C)

Drive Currents

$I_r = I_w =$	550 milliamperes
$I_{pw} =$	275 milliamperes
$t_r =$	0.2 microseconds
$t_d =$	3.0 microseconds

Output Signals

$uV_1 =$	80 millivolts
$dV_z =$	7 millivolts
$t_p =$	0.41 microseconds
$t_s =$	0.80 microseconds

TEST SPECIFICATION (at 25°C)

Drive Current Pulse Sequence

All cores are tested using the pulse sequence shown in Figure 1. Cores are delivered 100% tested to a 0.015 AQL as defined by Mil STD-105D, Inspection Level II.

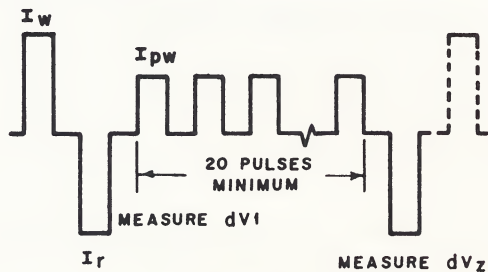


Figure 1.

Test Drive Conditions

$I_r = I_w =$	500 milliamperes \pm 1%
$I_{pw} =$	300 milliamperes \pm 1%
$t_r =$	0.2 microseconds
$t_d =$	3.0 microseconds

Test Output Signals

$uV_1 =$	60 millivolts minimum. The maximum variation in uV_1 within a given lot will be no greater than \pm 12%
$dV_z =$	8 millivolts maximum
$t_p =$	$0.47 \pm .05$ microseconds
$t_s =$	1.05 microseconds maximum



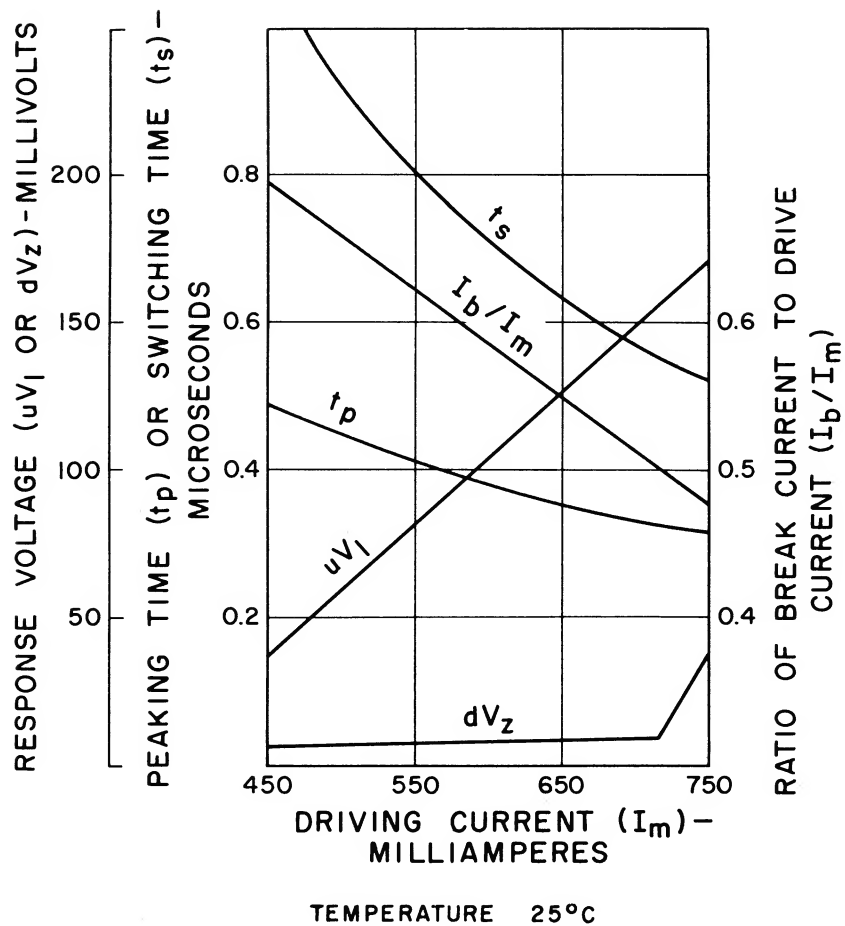


Figure 2. TYPICAL OPERATING CHARACTERISTICS

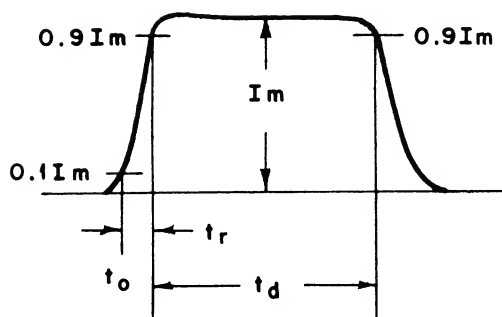


Figure 3. CURRENT PULSE

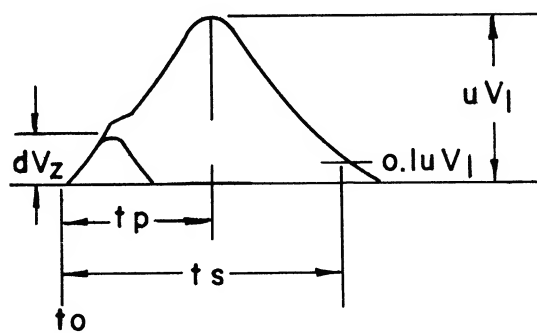
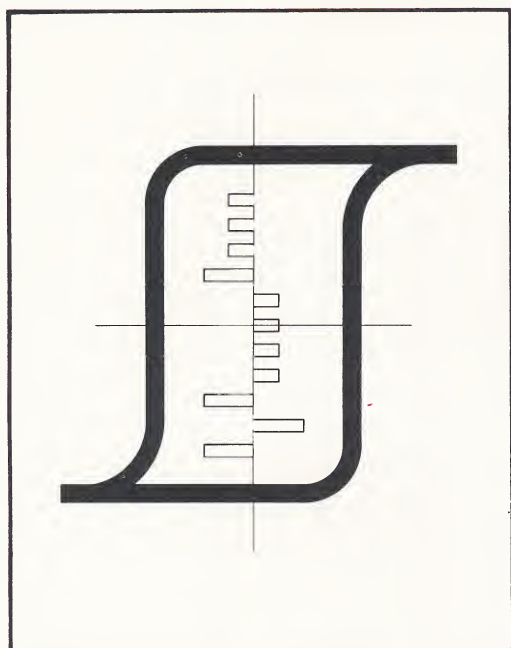


Figure 4. VOLTAGE RESPONSE

B Burroughs Corporation / ELECTRONIC COMPONENTS DIVISION
PLAINFIELD, NEW JERSEY



MEMORY PRODUCTS



FERRITE MEMORY CORE Type FC-2001

FC-2001 is a 20 mil ferrite memory core which exhibits a very fast switching speed at moderate drive currents. It is recommended for use in memories having cycle times of 2 microseconds. At a nominal drive current of 700 milliamperes, FC-2001 has a switching time of approximately 0.35 microseconds.

MECHANICAL SPECIFICATIONS

Outside Diameter $.022" \pm 0.001"$
Inside Diameter $.014" \pm 0.001"$
Thickness $.006" \pm 0.0005"$

Fracture strength: The core will not fracture when subjected to a compressive force of 100 grams applied between parallel plane surfaces normal to the core diameter.

TYPICAL OPERATING CONDITIONS (at 25°C)

Drive Currents

$I_r = I_w = 700$ milliamperes
 $I_{pw} = 350$ milliamperes
 $t_r = 0.10$ microseconds
 $t_d = 1.5$ microseconds

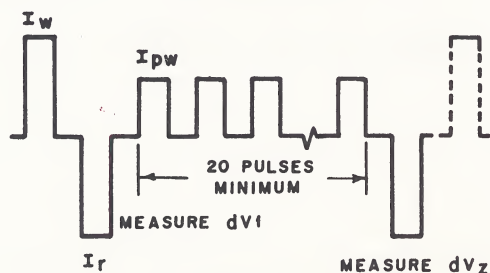
Output Signals

$uV_1 = 40$ millivolts
 $dV_z = 2.5$ millivolts
 $t_p = 0.20$ microseconds
 $t_s = 0.35$ microseconds

TEST SPECIFICATIONS (at 25°C)

Drive Current Pulse Sequence

All cores are tested using the pulse sequence shown in Figure 1. Cores are delivered 100% tested to a 0.015 AQL as defined by MIL STD-105D, Inspection Level II.



Test Drive Conditions

$I_r = I_w = 640$ milliamperes $\pm 1\%$
 $I_{pw} = 385$ milliamperes $\pm 1\%$
 $t_r = 0.10$ microseconds
 $t_d = 1.5$ microseconds

Test Output Signals

$uV_1 = 28$ millivolts minimum
 $dV_z = 4$ millivolts maximum
 $t_p = 0.21 \pm .02$ microseconds
 $t_s = 0.38$ microseconds maximum

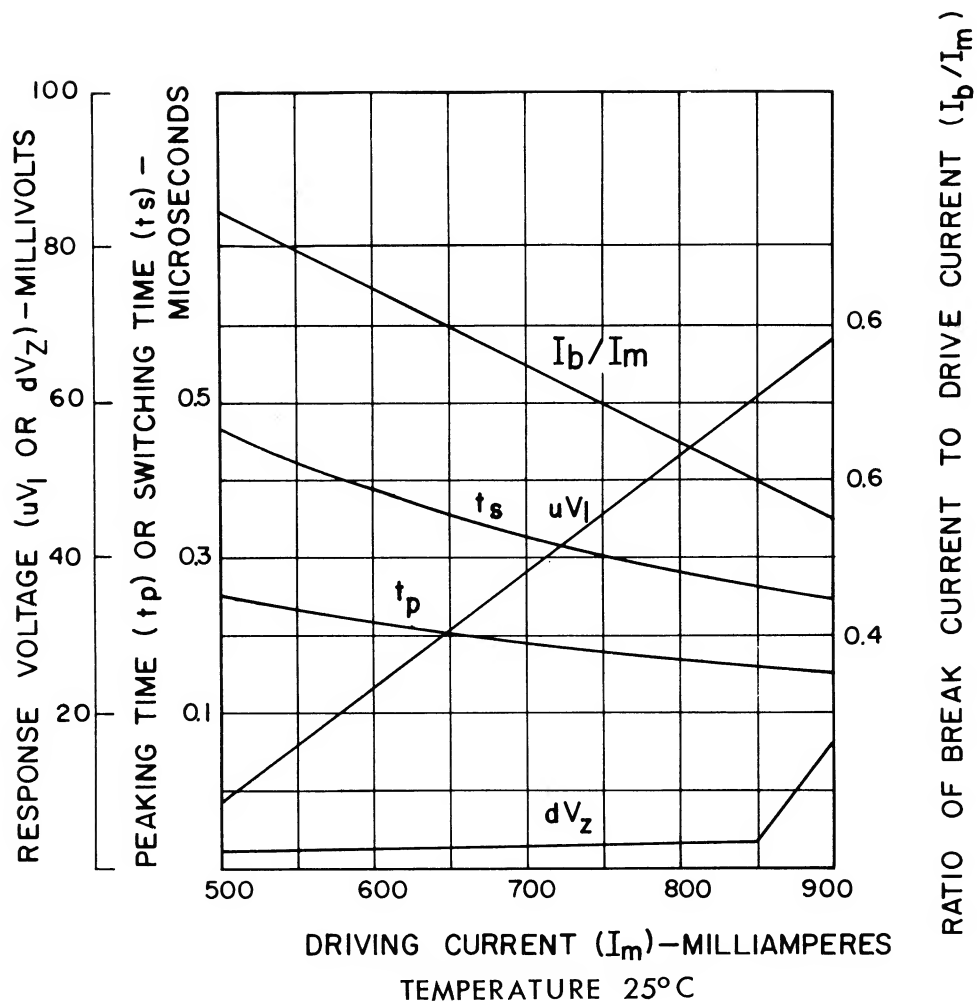


Figure 2. TYPICAL OPERATING CHARACTERISTICS

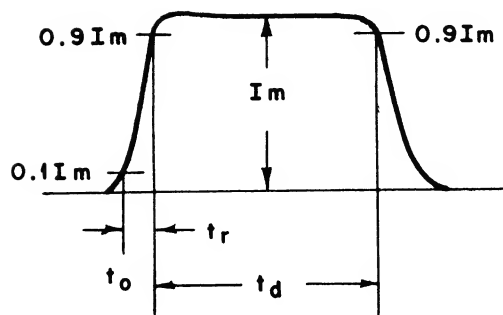


Figure 3. CURRENT PULSE

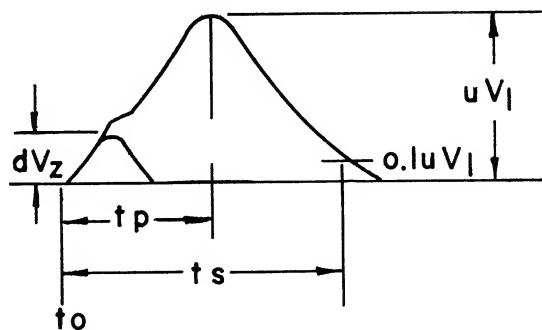
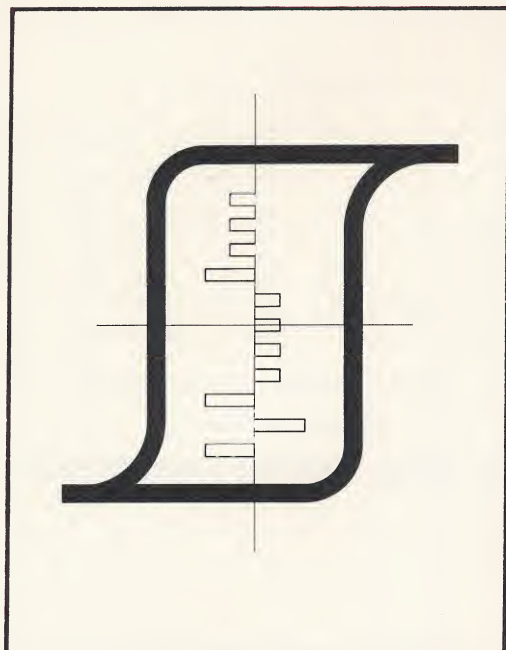


Figure 4. VOLTAGE RESPONSE

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PLAINFIELD, NEW JERSEY



MEMORY PRODUCTS



FERRITE MEMORY CORE Type FC-3003

The FC-3003 is a 30 mil ferrite core which exhibits very fast switching speed at moderate drive currents. It is recommended for use in memories having cycle times of 2 microseconds. At a nominal drive current of 700 milliamperes, FC-3003 has a switching time of approximately 0.40 microseconds.

MECHANICAL SPECIFICATIONS

Outside Diameter 0.030 ± 0.002 "
Inside Diameter 0.020 ± 0.0015 "
Thickness 0.010 ± 0.001 "

Fracture strength: The core will not fracture when subjected to a compressive force of 100 grams applied between parallel plane surfaces normal to the core diameter.

TYPICAL OPERATING CONDITIONS (at 25°C):

Drive Currents

$I_r = I_w = 700$ milliamperes
 $I_{pw} = 350$ milliamperes
 $t_r = 0.10$ microseconds
 $t_d = 1.5$ microseconds

Output Signals

$uV_1 = 50$ millivolts
 $dV_z = 4$ millivolts
 $t_p = 0.22$ microseconds
 $t_s = 0.40$ microseconds

TEST SPECIFICATIONS (at 25°C):

Drive Current Pulse Sequence

All cores are tested using the pulse sequence shown in Figure 1. Cores are delivered 100% tested to a 0.015 AQL as defined by MIL STD-105D, Inspection Level II.

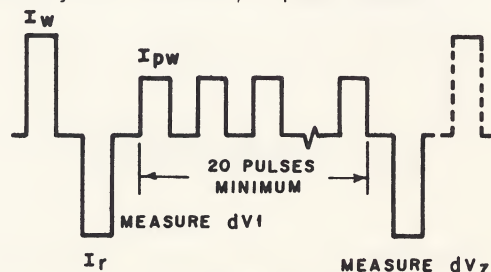


Figure 1.

Test Drive Conditions

$I_r = I_w = 640$ milliamperes $\pm 1\%$
 $I_{pw} = 395$ milliamperes $\pm 1\%$
 $t_r = 0.10$ microseconds
 $t_d = 1.5$ microseconds

Test Output Signals

$uV_1 = 38$ millivolts minimum. The maximum variation in uV_1 within a given lot will be no greater than $\pm 12\%$.
 $dV_z = 8$ millivolts maximum
 $t_p = 0.23 \pm .03$ microseconds
 $t_s = 0.47$ microseconds maximum

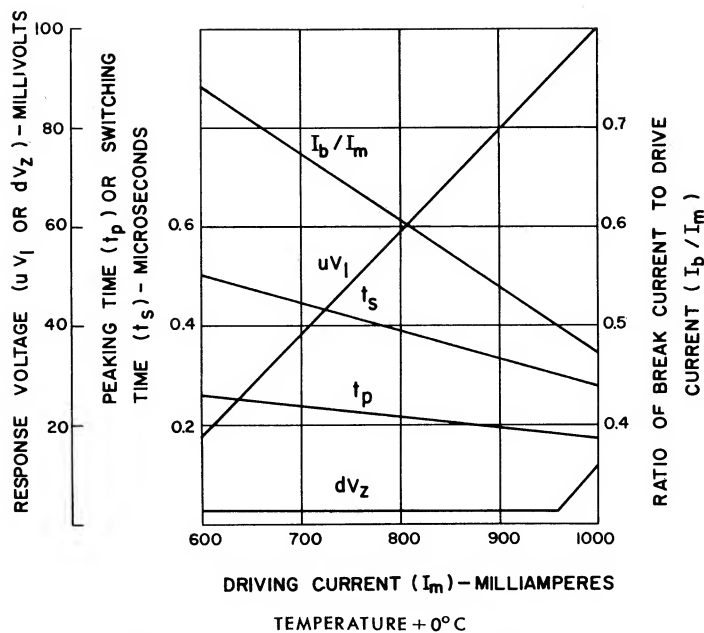


Figure 2a. TYPICAL OPERATING CHARACTERISTICS

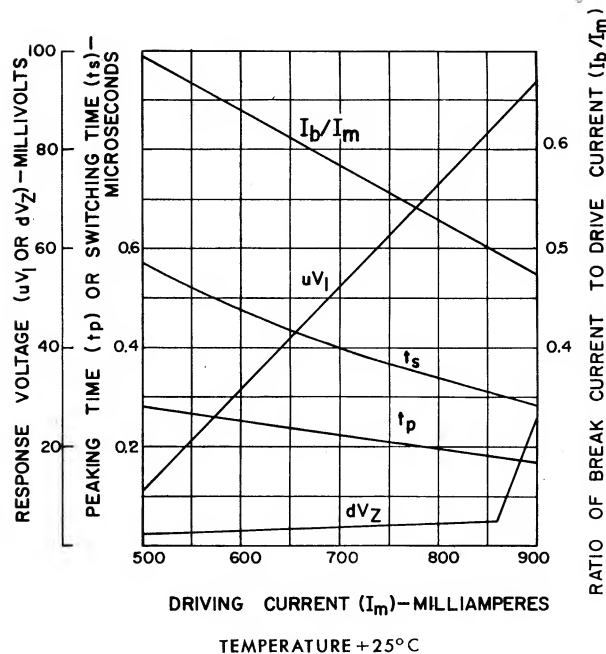


Figure 2b. TYPICAL OPERATING CHARACTERISTICS

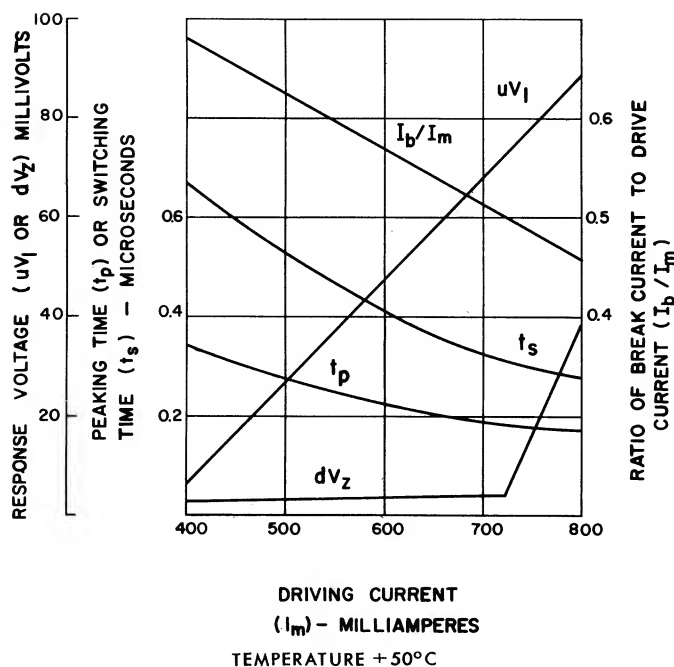


Figure 2c. TYPICAL OPERATING CHARACTERISTICS

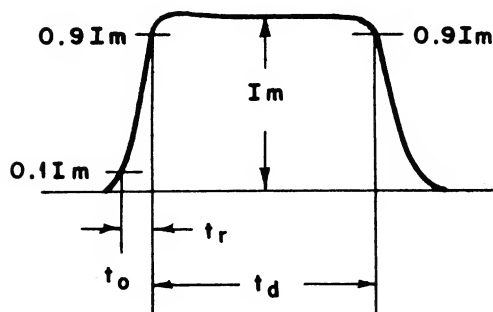


Figure 3. CURRENT PULSE

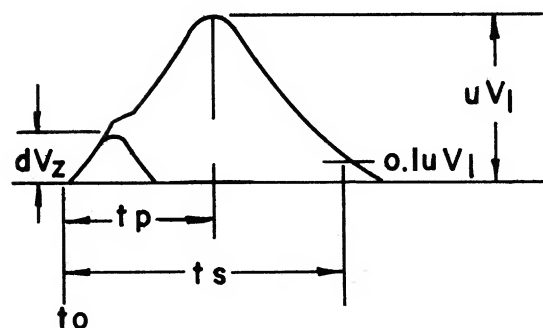


Figure 4. VOLTAGE RESPONSE

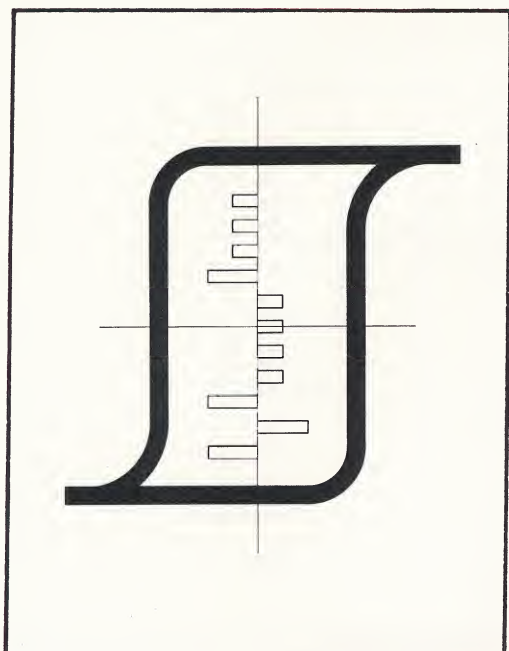


Burroughs Corporation

ELECTRONIC COMPONENTS DIVISION
PLAINFIELD, NEW JERSEY



MEMORY PRODUCTS



FERRITE MEMORY CORE Type FC-3006

The FC-3006 is a 30 mil ferrite core which exhibits fast switching speed at moderate drive currents. It is recommended for use in memories having cycle times of 2 microseconds over a 100° C temperature range. At a nominal drive current of 800 milliamperes, FC-3006 has a switching time of approximately 0.46 microseconds.

MECHANICAL SPECIFICATIONS

Outside Diameter 0.030 ± 0.002 "
Inside Diameter 0.020 ± 0.0015 "
Thickness 0.008 ± 0.001 "

Fracture strength: The core will not fracture when subjected to a compressive force of 100 grams applied between parallel plane surfaces normal to the core diameter.

TYPICAL OPERATING CONDITIONS (at 25°C):

Drive Currents

$I_r = I_w = 800$ milliamperes
 $I_{pw} = 400$ milliamperes
 $t_r = 0.10$ microseconds
 $t_d = 1.0$ microseconds

Output Signals

$uV_1 = 55$ millivolts
 $dV_z = 6$ millivolts
 $t_p = 0.24$ microseconds
 $t_s = 0.46$ microseconds

TEST SPECIFICATIONS (at 25°C):

Drive Current Pulse Sequence

All cores are tested using the pulse sequence shown in Figure 1. Cores are delivered 100% tested to a 0.015 AQL as defined by MIL STD-105D, Inspection Level II.

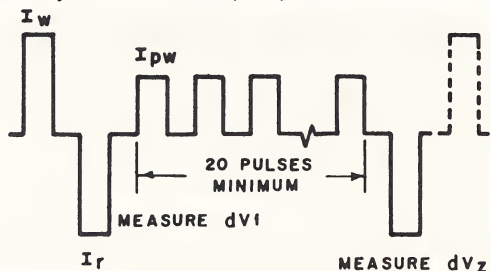


Figure 1.

Test Drive Conditions

$I_r = I_w = 800$ milliamperes $\pm 1\%$
 $I_{pw} = 488$ milliamperes $\pm 1\%$
 $t_r = 0.10$ microseconds
 $t_d = 1.0$ microseconds

Test Output Signals

$uV_1 = 50$ millivolts minimum. The maximum variation in uV_1 within a given lot will be no greater than $\pm 12\%$.
 $dV_z = 9$ millivolts maximum
 $t_p = 0.24 \pm .03$ microseconds
 $t_s = 0.50$ microseconds maximum

DRIVING CURRENT (I_m) = 800 ma
 (I_{pw}) = 488 ma

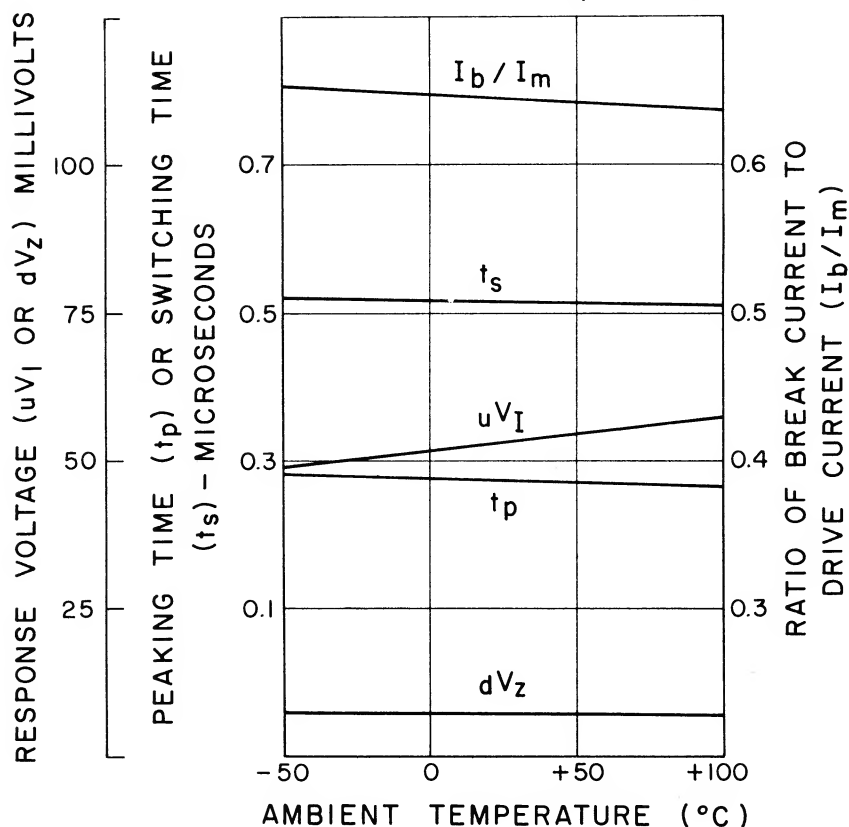


Figure 2. TYPICAL OPERATING CHARACTERISTICS FROM -50°C to $+100^{\circ}\text{C}$.

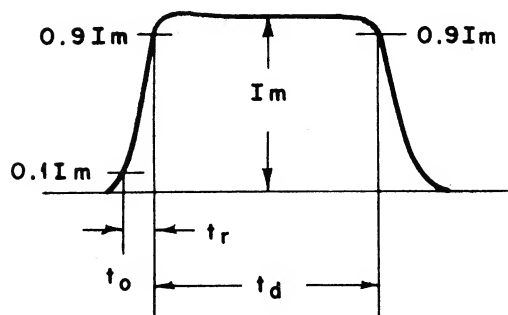


Figure 3. CURRENT PULSE

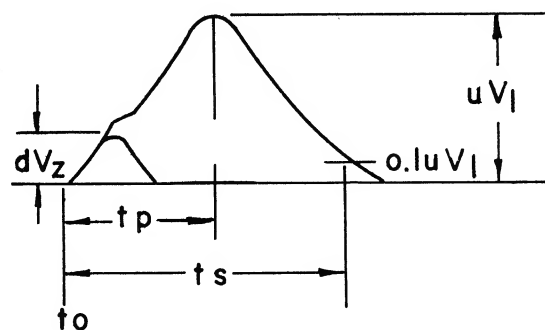


Figure 4. VOLTAGE RESPONSE

B Burroughs Corporation / ELECTRONIC COMPONENTS DIVISION
 PLAINFIELD, NEW JERSEY

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New York Metropolitan

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B. Dorfman
Box 1226
Plainfield, New Jersey
201-757-5000

FLORIDA, Eau Gallie

Reynolds & Associates, Inc.
P. O. Box 1043
305-254-0520

MARYLAND, Silver Spring (S)

L. G. White & Co., Inc.
880 Bonifant Street
585-3141 & 3111 (Wash.)
301-685-1780 (Balt.)

MASSACHUSETTS, Wakefield (S)

Instrument Dynamics, Inc.
Wakefield Industrial Park
245-5100

NEW YORK, Albany

J. A. Reagan Co., Inc.
419 Central Avenue
HEmlock 6-9640

PENNSYLVANIA, Philadelphia

Eastern Instrumentation, Inc.
613 Cheltenham Road
WAverly 7-6269-70

CENTRAL

INDIANA, Indianapolis

R. O. Whitesell & Assoc., Inc.
6620 East Washington Street
Fleetwood 9-5374

ILLINOIS, Chicago

Lang, Claeson & Associates
6733 North Olmsted Avenue
SPring 4-3610

MICHIGAN, Detroit

Hilltronics, Inc.
13720 Puritan Avenue
342-3242

MINNESOTA, Minneapolis

Merrill Franklin Company
730 East 38th Street
827-5348

MISSOURI, St. Louis

Engineering Services Co.
6717 Vernon Avenue
PArkview 6-2233

OHIO, Columbus (D)

Electronic Marketing Corp.
814 West Third Avenue
614-299-4161

TEXAS, Richardson (S)

Arnold Barnes Company
740 S. Sherman Street
ADams 5-4541, 42, 43

WEST

CALIFORNIA, Los Angeles (S)

Tech-Ser, Inc.
6061 W. Third Street
WEBster 7-0780

COLORADO, Denver

Brooks, Feeger Association
2186 S. Holly Street
934-5578

WASHINGTON, Seattle

Stanley Enterprises
127 River Street
PArkway 3-3320

(S) Local Stock

(D) Local Distributor



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PLAINFIELD, NEW JERSEY 07061

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